1	ATO	GCT(TT(CCG	CGC(CCG	GGG	GCC(GGT.	ACG	GGG	CAG	GGG(CTG	GGG	GCG	GCC	GGC	GGA(GGCT	60
1	M	L	F	R	A	R	G	Б	V	R	G	R	G	W	G	R	P	A	Ξ	Α .	20
61	CC	CCG	CCG(CGG(GCG	CTC	GCC	GCC	CTG	GAG	CCC	CGC	CTG	GAT	TTG	CTG	CTG	GGC	GCT	CGCC	120
21	p	R	R	G	R	S	₽.	P.	W	S	Б	A	W	Ι.	С	С	₩.	A	L	Α .	40
121	GG	CTG	CA(GGC(GGC	CTG	GGC'	TGG	GGA	CCT	GCC	CTC	CTC	CTC	CAG	CCG	CCC	GCT	TCC'	TCCT	180
41	G	С	Q	A	A	W	Α.	G	D	L	р	S	S	\$	S	R	₽.	L	P	p	60
181	TG	CCA(GGA(GAA	AGA'	TTA	TCA	CTT	TGA	ATA	TAC	GGA	ATG	TGA	TAG	CAG	TGG	CTC	CAG	GTGG	240
61	С	Q	Ε	K	D	Y	Н.	F	E	Y	Ţ	Ε	C	D	S	S	G	S	R	₩ .	80
241	AG.	AGT'	TGC	CAT	TCC.	AAA	TTC	TGC	AGT	GGA	CTG	CTC	TGG	CCT	'GCC	TGA	CCC	AGT	'GAG	AGGC	300
81	R	V	A	Ι.	₽	N	S	A	V	D	. C	S	G	L .	P	D	P	V	R	G .	100
301	AA	AGA	ATG	CAC	TTT	CTC	CTG	TGC	TTC	TĠG	AGA	GTA	TCT	AGA	AAT	'GAA	.GAA	.CCA	.GGT	ATGC	360
101	K	Ξ	С	T	F	S	С.	A	S	G	Ξ.	Y	L	Ξ.	M	K	N	Q	Λ	C .	120
361	AG	TAA	GTG	TGG	TGA	AGG	CAC	СТА	TTC	CTT	GGG	CAC	TGG	CAT	CAA	TTA	TGA	TGA	ATG	GGAT	420
121	S	K	С	G	E	G	Τ.	Y	S	L	G	S	G	I	K	F	D	Ε	W	D .	140
421	GA	ATT	GCC	GGC	AGG	TTA	TTC	'TAA	CAT	CGC	AAC	'ATI	CAT	GGA	ACAC	TGT	GCT	GGC	GCCC	TTCT	480
141	Ξ	L	þ	A	G	F	S.	N	I	A	T	F	M	D	T	V	۷.	G	Б	S .	160
481	GA	CAG	CAG	GCC	AGA	.CGC	CTO	TAA	ACA!	ACTO	TTC	TTC	GAT	CCC	CTCC	GTG(JAA.	ACTA	ACAT	CAGAA	540
161	D	S	R	P	D	G	C	N	N	S	S	W	Ī	p	R	G	N	Ā	I	€ .	180
541	TO	TAA	TCC	TGA	TGA	CTO	CA(GG1	rgt(TTT	GA1	CTA	ATG(TG	[GC/	ACC.	TA <i>I</i>	AGA?	AGT(CAGGC	600
181	S	N	R	D	D	C	T	. V	S	L	. I	Y	A	V	H	L	К	. K	S	G .	200
601	TA	TGI	CTT	CTT	TGA	GTI	ACC!	\GT?	ATG:	rcg <i>i</i>	ACAI	ACAZ	ACAT	CT	rct	rtg <i>i</i>	AGT"	rct:	rtan	TCAA	660
201	Y	V	F	£	Ξ	Y	Q	Y	V	D	N	N	I	F	F	Ξ	F	F	I	Q	220

FIG. 1A



661	AA	TGA'	TCA(GTG	CCA(JGA(GAT(GGA	CAC	CAC	CAC'	TGA:	CAA	GTG	GGT	AAA	ACT	TAC.	AGA	CAAT	720
221	N	D	Q	C .	Q	3	M	D	T	T	T	D	K	₩ .	Λ	K	L	T	D	N .	240
721	GG	AGA	ATG	GGG	CTC'	rca:	TTC'	TGT.	AAT	GCT	GAA	ATC.	AGG	CAC	AAA	CAT	ACT	CTA	CTG	GAGA	780
241	G	Ε	W	G	S	H	S	Ų	M	Ĺ	. K	S	G	T ·	N	I	L	Y	W	R	260
781	AC'	TAC.	AGG(CAT	CCT'	CAT	GGG'	TTC	TAA	GGC	GGT	CAA	GCC'	TGT	GCT	GGT.	AAA	AAA	TAT	CACA	840
261	Ţ	T	G	[L	M	G	S	K	A	. Υ	Х	Р	٧.	L	V	K	N	Ι	T .	280
841	AT'	TGA	AGG	GGT	GGC(GTA	CAC.	A'TC	4GA	ATC	TTT	TCC	TTG	CAA	GCC	AGG	CAC	ATT	CAG	CAAC	900
281	-	Ε	G		A	Y	Τ.	Ċ	Ε	C	F	P	С	Κ.	p	G	Τ.	F	S	N .	300
901	AA	ACC	AGG'	TTC.	ATT	CAA	CTG	CCA	GGT	GTG	TCC	CAG	AAA	CAC	CTA	TTC	TGA	GAA	AGG	AGCC	960
301	Х	P	G	S	F	N	C	Q	V	C	P	R	N	T .	Y	S	Ε.	K	G	A .	320
961	AA	AGA	ATG	TAT	AAG	GTG	TAA	AGA	.CGA	CTC	TCA	ATT	TTC	AGG	ATC	CAG	TGA	GTG	TAC	AGAG	1020
321	K	Ε	С	I	R	C	K	D	D	S	Q	F	S	G ·	S	S	€.	С	T	Ε.	340
1021	CG	CCC	TCC	CTG	TAC	CAC	AAA	AGA	.CTA	TTT	CCA	GAT	CCA	TAC	TCC	'ATG	TGA	TGA	AGA	AGGA	1080
341	R	þ	P	C .	T	T	К.	D	Y	F	Q	Ι	Н	T	P	С	D.	Ξ	Ε	G .	360
1081	AA	.GAC	'ACA	.GAT	AAT	GTA	CAA	.GTG	GAT	'AGA	GCC	CAA	AAT	CTC	CCC	iGGA	\GGA	TCT	CAC	AGAT	1140
361	K	T	Q	I	M	Y	К.	W	Ι	Ξ	р	K	I	C .	R	Ε	D	L	T	D .	380
1141	GC	TAT	'TAG	ATT	'GCC	CCC	TTC	TGC	AGA	GAA	GAA	GGA	TTC	TCC	:GC(TTC	GCA!	ACC(TGC	TTTA	1200
381	A	I	R	L	Đ	P	S	G	Ξ	K	. K	D	С	p	Р	С	N	9	G	F .	400
1201	TA	TAA	CAA	TGC	ATC	ATC	TTC	TTC	CCA	TCC	CTO	TCC	TCC	TG(JAA(TAT	TTT('AGA	ATGO	SAACC	1260
401	Y	N	N	G	S	S	S	С	Н	ē	. C	ō	Þ	G	T	ਝ	S	D	G	T .	420
1261	AA	AGA	ATC	TAC	ACC	ATC	TCC	'AGC	AGC	AAC	:GGA	.GCC	TGC	ACT	TG	3CTT	ľľG <i>l</i>	TAL	ATA	ATGG	1320
421	Х	E	C	R	P	C	Ď	A	G	T	E	P	A	L	G	F	Ξ	Y	K	W	440

FIG. 1B



1321	TG	GAA	TGT	CCT	TCC	TGG	CAA	CAT	GAA	AAC'	TTC	CTG	CTT	CAA	TGT	TGG	GAA	TTC	AAA	GTGC	1380
441	W	N	V	Ĺ	p	G	N	M	K	T	S	C	F	N	V	G	N	S	K	C	460
1381	GA	TGG	AAT	GAA	TGG	TTG	GGA	GGT	GGC	TGG	AGA	TCA	TAT	CCA	GAG	TGG	GGC	TGG	AGG	TTCT	1440
461	D	G	M	N	G	W	Ξ	V	A	G	D	Н	Ī	Q	S	G	A	G	G	S	480
1441	GA	CAA	TGA	TTA	CCT	GAT	CTT	AAA	CTT	GCA'	TAT	CCC	AGG.	ATT	TAA	ACC	ACC	AAC	ATC	TATG	1500
481	D	N	D	Ā	Ŀ	I	L	N	L	H	I	5	G	F	K	þ	P	T	S	M	500
1501	AC	TGG	AGC	CAC	GGG	TTC	TGA	ACT	AGG	AAG	AAT	AAC	ATT	TGT	CTT	TGA	GAC	CCT	CTG	TTCA	1560
501	T	G	A	T	G	S	Ε	L	G	R	I	T	F	Λ	F	Ξ	T	Ĺ	C	S	520
							,														
1561	GC	TGA	CTG	TGT	TTT	GTA	CTT	CAT	GGT	GGA	TAT	TAA	TAG	AAA	AAG	TAC	AAA	TGT	GGT	AGAA	1620
521	A	D	C	V	L	Y	F	M	Λ	D	I	N	R	K	S	T	N	V	A	Ε	540
																				•	
1621	TC	GTG	GGG	TGG	AAC	CAA	AGA	AAA	ACA	AGC	TTA	.CAC	CCA	TAT	CAT	'CTT	CAA	GAA	TGC	AACT	1680
541	S	W	G	G	T	K	Ε	K	Q	A	Y	Ţ	H	I	I	F	K	N	A	T	560
				٠							•			٠							
1681	TT	TAC	ATT	TAC	ATG	GGC		CCA				TCA		TCA					GTT	CATC	1740
561	9	T	F	Ţ	W	A	F	Q	R	T	N	Q	G	Q	D	N	R	R	F	I	580
																		_			
1741																				GTCC	1800
581	Ň	D	M	V	K	I	Y	Ş	I	Τ	A	T	N	A	V	D	G	A	A	S	600
	-				l am a	a			mm a	.m.c. 1		a m a				· ama	,		· cm c		1050
1801																GTU			CIG	CCCT	1860
601	S	C	R	A	C	A	L	G	S	E	Q	S	G	S	S	C	V	Þ	C	ħ	620
	aa	11.00			C3 T	ma 1		1.71	110	.c. 1		am.	103.3		3.000	ım <i>a</i> c		ama s	010		1000
																					1920
621	Ь	Ġ	Н	Y	1	E	K	E	T,	N	Q	C	K	Ξ	C	Ą	β	IJ	Ţ	Y	640
1001	C.C.	ia ma	1015		ma:	aam		ma a		101		mm	E 101 E		13 M	1000		·	1030		1 2 2 2
																					1980
641	Ĺ	S	I	Н	Q	V	Y	G	K	Ξ	A	C	1	δ	(,	G	þ	G	S	K	660

FIG. 1C



1981	AA	CAA'	rca(GGA(CCA'	TTC(GGT'	TTG	CTA'	ľAG'	IGA(CTG	CTT'	TTT	CTA	CCA	TGA	AAA	AGA	TAAA	2040
661	N	N	Q	D	H	S	۷.	C	Y	S	D	С	F	F	Y	H	Ε.	K	Ε	N	680
2041	CA	GAT'	TTT	GCA	CTA	TGA	CTT	TAG	CAA	CCT	CAG	CAG'	TGT	GGG	CTC	ATT	AAT	GAA	TGG	CCCC	2100
681	Q	Ι	L	H	Y	D	F	S	N	L	S	S	Λ	G	S	Ĺ	M	N	G	P .	700
2101	AG	CTT	CAC	CTC	CAA	AGG.	AAC	AAA	ATA	CTT	CCA'	TTT	CTT	CAA	TAT	CAG	TTT	ATG	TGG	GCAT	2160
701	S	F	T	S	K	G	Ţ	K	Y	F	H	F	F	N	Ι	S	L	C	G	H .	720
2161	GA	GGG	GAA	GAA	GAT	GGC	TCT	'C'IG	TAC	CAA	CAA	TAT	AAC	AGA	CTT	TAC	AGT	AAA	AGA	AATA	2220
721	Ε	G	Х	K .	M	A	L	C	T	N	N	I	T	D	F	T	۷.	K	Ξ	Ι.	740
2221	GT	GGC	AGG	GTC	AGA	TGA	TTA	.CAC	AAA	TTT	GGT	AGG	GGC	ATT	TGT	'ATC	CCA	GTC	AAC	AATT	2280
741	V	A	G	S	D	D	Y .	T	N	L		G	A	F ·	V	С	Q	S	T	Ι.	760
2281	AT	TCC	TTC	TGA	AAG	TAA	.GGG	TTT	'CCG	AGC	AGC	CTT	'ATC	ATC	ACA	ATC	CAT	CAT	TCT	GGCA	2340
761	Ι	ā	S	E	S	K	G.	F	R	A	. A	Ĺ	S	S	Q	S	I	I	L	Α .	780
2341	GA	TAC	ATT	'CAT	'AGG	AGT	CAC	AGT	TGA	AAC	CAC	ATT	GAA	AAA	TAT	TAA	TAT	[AAA]	AGA	AGAT	2400
781	D	. Т	P	Ι.	G	V	T	٧	Ε	T	T .	L	K	N ·	I	N	Ι	K	Ε	D .	008
2401	AT	GTT	CCC	AGT	TCC	'AAC	AAC	GCCA	LAAT	'ACC	.AGA	TGI	IGC.	TTI	CT	TT?	ATA	AGT(TTC	TACA	2460
801	M	F	Đ	٧	b	T	S	Q	Ι	Þ	. D	V	Н	F	F	Y	K		S	Τ .	820
2461	GC	:AAC	AAC	ATC	TTC	TAT	TAP	\TG(GCC(JAT('AAC	TG(TG	[GA/	\AA'	rga(GT(JTA!	ATCO	TACT	2520
821	A	T	T	S	С	Ι	N		R	S	T .	A	Λ	Κ.	M	R	С	. N	p	Τ.	840
2521	A.	ATO	TGO	JAG(CAGO	AGT	[GA]	rtr(CAG	CCC(CAC	GCAI	AGT(GCC(CAG	CAG	GTA(CCT(TG!	ATGGG	2580
841	K	S	G	A	G	Λ	I		V	þ	\$	K	С	р	A	G	T		D	G	860 -
2581	T	TAC	GT1	CTA	ATT!	[CC]	[GT(3GG!	AGA(TG(TG	AAG(CTT(GCC(CTC'	TGT	GTA	CGG	AGC!	ATGAC	2640
861	C	T	F	Y	F	L	W	Ξ	S	A	Ξ	A	С	р	L	C	T	Ε	H	D	088

FIG. 1D



2641	$\tt TTCCATGAGATTGAGGGAGCCTGCAAGAGAGGATTTCAGGAAACCTTGTATGTGTGGAAT$	2700
881	FHEIEGACKRGFQETLYVWN	900
2701	GAACCTAAATGGTGCATTAAAGGAATTTCTTTGCCTGAGAAAAAGTTGGCAACCTGTGAA	2760
901	E P K W C I K G I S L P E K K L A T C E	920
2761	ACGGTTGACTTTTGGCTGAAGGTGGGAGCCGGTGTGGGAGCTTTTACTGCCGTTTTGCTG	2820
921	T V D F W L K V G A G V G A F T A V L L	940
2821	GTGGCTCTGACCTGCTACTTCTGGAAAAAGAATCAAAAGAAAAAAAA	2880
941	V A L T C Y F W K K N Q K K K K T I L N	960
2881	CTGTTCAACTGAAAACCTCAAGATCCCCAAATATATGAAGAGACAGTGCTGTAGCCTTGA	2940
961	L F N *	964
2941	GACTAATGAACAAAGAAACCTGCTCTAGTTTTACAGGACCATATTTTAGGGTCTGTCCTC	3000
3001	ATACCTGTCACATTGGTGATCTCACAGAGGAGGCCCATGCCGCTGAAAAGGGAAGGAGAT	3060
3061	TGAAACATTTGATTGCCTTATCACATGGTCAAGTACCTTGCCAAATAAAGGAAAGCAAAT	3120
3121	GATTTGGGTCTCAACTGAAGATGAAGCTCAACTCAGGAAGAGATTTATCTGTATATACAC	3180
3181	ATAACTGAAAACCAAGTTTAAGCCCACCAATGCACTGCTGATGCATGC	3240
3241	GGGTAACTTTTATTCTTTATGATGTCTACATAACAAGTGTGATTTGGAAGGCACATGTGA	3300
3301	GCATATGCATTATGATCCAATTTATGTTTTTTTTTTTTT	3360
3361		

FIG. 1E



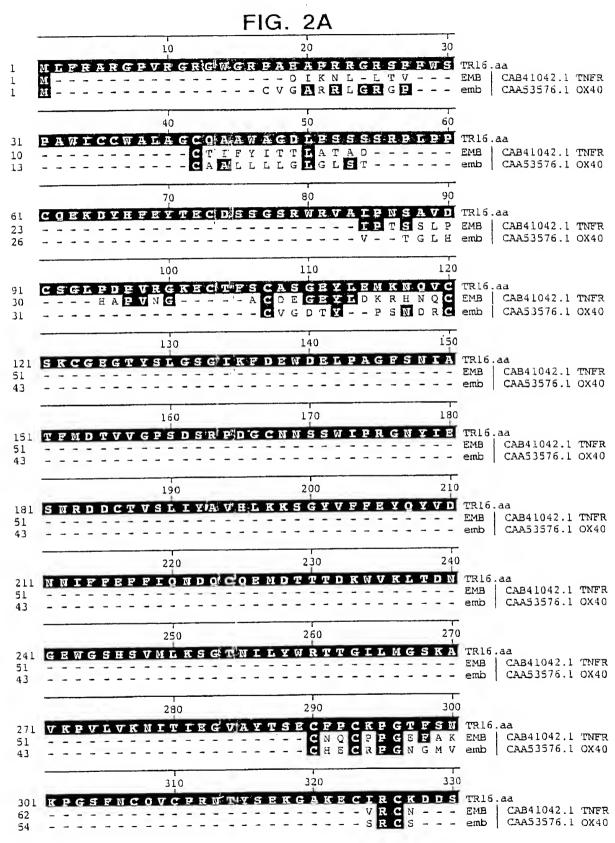




FIG. 2B

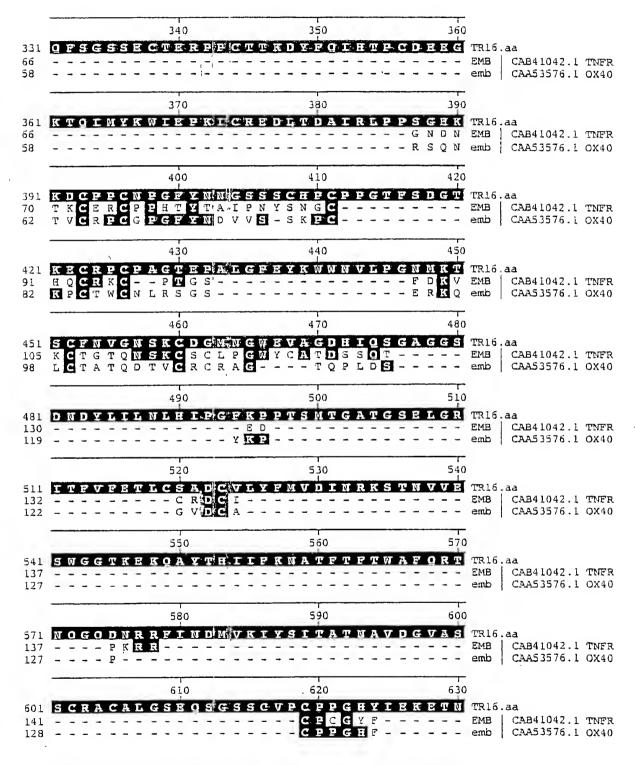




FIG. 2C

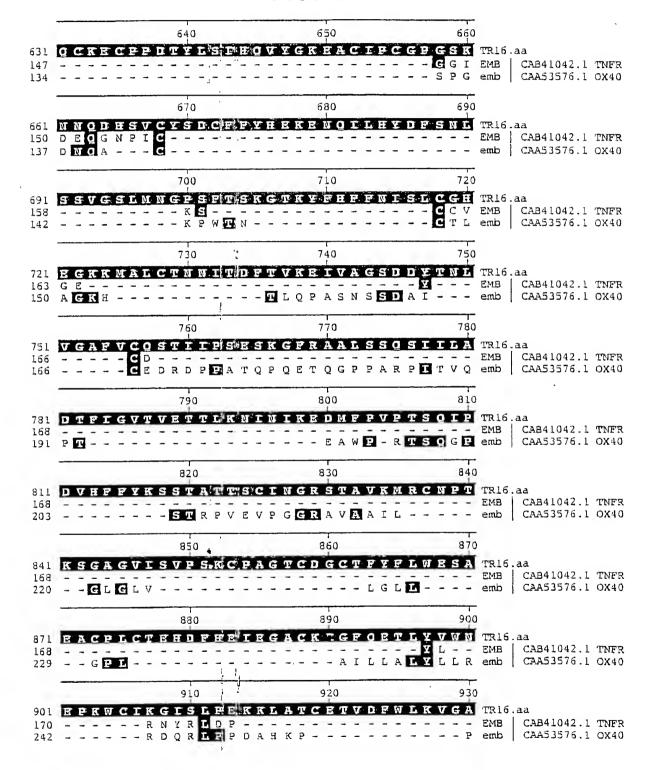
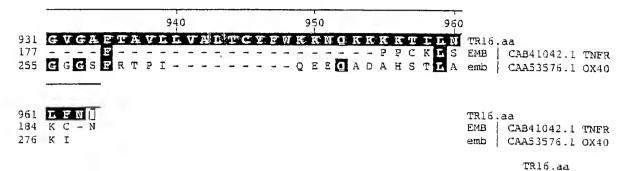




FIG. 2D



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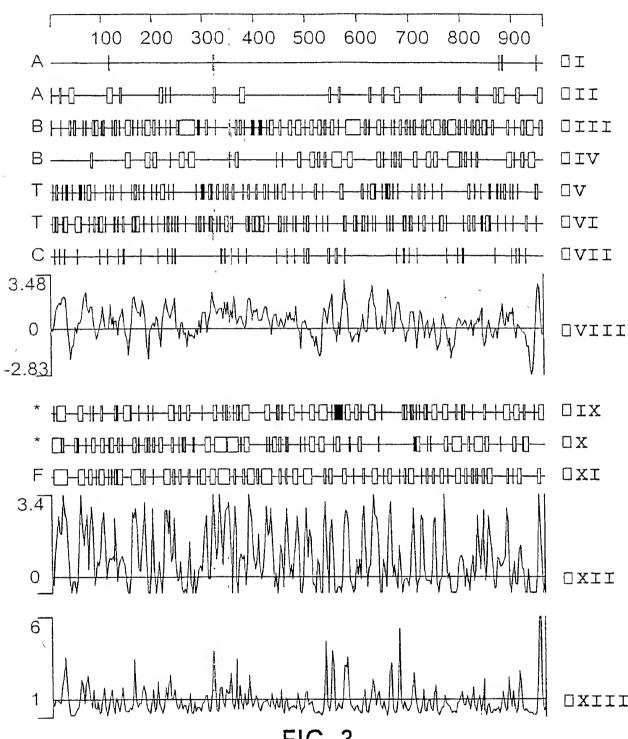


FIG. 3



1	AT(GCT(JTT	CCG	CGC	CCG	GGG(3CC	CGT	ACG(3GG(CAG	GGG	CTG	GGC(GCG	GCC	GGC(GA(GCT	60
1	M	L	F	R	A	R	G	Р	V_j	R	G	R	G	W	G	R	Ъ	A	E	A	20
61	CC	CCG	CCG	CGG	GCG	CTC	GCC(GUC	CTG	GAG	CCC	CGC	CTG	GAT	TTG	CTG	CTG	GGC	GCT(CGCC	120
21	Р	R	R	G	R	S	p	þ	M	S	P	A	W	I	C	C	W	A	L	A	40
	CC	ama.	aat.		aaa	ama	naa	TAC		രത		ama	രൻദ	· ama	מז מ	aaa		מ משו	חממי		100
121								•	_	_										JCCT 1	180
41	G	С	Q	Α .	A	M	Α.	G	D	L	P	S	S	S	S	R	р	L	Þ	₽ .	60
181	TG	CCA	GGA	GAA	AGA'	TTA	TCA	CTI	'IGA	ATA	TAC	GGA	ATG	TGA	TAG	CAG	TGG	CTC	CAG	GTGG	240
61	С	Q	Ε	K	D	Y	H	7	E	Y	T	Ε	C	D	S	S	G	S	R	W	80
241	ΔC	ልረጥ	ሞርር	ሮልሞ	መርር	277	ግጥቦ	ጥ ርርር	 ነ <u></u> ልረነጥ	CCA	ረጥር	ረሞ	ፐርር		ርርር የ	ፐርል	୯୯୯	AGT	GAG	AGGC	300
81	R	V	A		р	N	S		. V:	D.	C.	S	G	L	р	D	р	V	R	G	100
01	Λ	٧	A		E	H	,	n	. •	U		U	u		Ĺ	ט		•		,	100
301	AA	AGA	ATG	CAC	TTT	CTC	CTG	TG(TTC	TGG	AGA	GTA	TCT	'AGA	AAT	'GAA	GAA	.CCA	GGT	ATGC	360
101	K	Ε	C	T	F	S	C:	Ä	۶	G	Ξ	Y	L	Ε	M	K	N	Q	V	C	120
		 .	am a		ma.	3.00	:	com z	mma	amm	Idaa	.01.0	maa	1/13/II	ו גיטי	a ma	maa x	መጣ እ	እ ጠ ረግ		420
361																				GGAT	420
121	S	K	С	G	Ε	G	Τ.	Y	. S	Ļ		S	G	Ι.	K	F	D	Ξ	₩	D .	140
421	GA	TTA	'GCC	:GGC	AGC	ATT	TTC	TAI	ACAT	CGC	'AAC	'ATT	CAT	IGGA	CAC	TGI	GGT	'GGG	CCC	TTCT	430
141	Ε	L	p	A	G	F	S	N	I	A	T	F	M	D	T	V	V	G	P	S	160
481	GA	CAC	CAC	IGCO	'AGA	l CGC	CTC	ΤΑ	ACAA	(CTC	TT(TTT(GAT	CCC	TCC	GTG(AAA	ACTA	CAT	AGAA	540
161																					180
•									7												
541	T(TAA	ATC(TG!	ATGA	\CT(GCAC	:GG'	IGT(TT	[GA]	CTA	ATG(TG:	[GC!	ACC"	LTA!	\GAA	AGT(AGGC	600
181									•											G	
							,											•			
601	TI	\TG1	CT:	rcr:	rtg.	AGT!	ACC.	AGT.	ATG!	[CG!	ACA/	ACA	ACA	rcr'	rcr:	ľTG	AGT.	[CT]	PAT	TCAA	660
201	Y	V	F	F	Ε	Y	Q	Y	٧.	D	N	N	Ī	F	F	Ξ	F	F	I	Q	220
661	Δ	ኒፕር፤	ኒጥሮ፤	ልርጥ	¦ርር፤	AGG)	AGA1	r(;;;	ACAC	TCA(CCAO	TG	ACA	AGTO	GG'	TAA.	AAC'	PTAC	:AGA	ACAAT	720
221																		T		N	240
	.,	<u> </u>	Ž	_	Z	_			-	•	-	_	•-	• • •	-		_	-	_		



FIG. 4A

721	GGI	AGA	ATG(3GG	CTC'	TCA'	rtc'	TGT	AAT(GCT(JAA	ATC.	AGG	CAC.	AAA	CAT.	ACT	CTA	CTG(GAGA	780
241	G	E	M	G	S	Н	S.	V	M	L	K.	S	G	T	N	I	L	Y	W	R	260
781	AC'	TAC:	AGG(CAT	CCT'	TAT	GGGʻ	TTC	TAA	GGC	GGT	CAA	GCC	TGT(GCT	GGT.	AAA	AAA'	TAT	CACA	840
261	T	T	G	I	L	M	G	Ş	K	A	V	K	₽.	V	Ţ,	V	K	N	I	T	280
841	AT.	rga.	AGG	GGT	GGC	GTA	CAC.	ΑŢC	AGA	ATGʻ	TTT'	TCC	TTG	CAA	GCC	AGG	CAC	ATT	CAG	CAAC	900
281	I	Ξ	G	٧	A	Y	T	Ś	Ε	C	F	b	С	K	P	G	T .	F	S	N .	300
901	AA	ACC.	AGGʻ	TTC	ATT	CAA	CTG	CCA	GGT	GTG'	TCC	CAG	AAA	CAC	CTA	TTC	TGA	GAA	AGG	AGCC	960
301	K	5	G	S	F	N	C	Ç	Л	С	р	R	N	T .	Y	S	Ε.	K	G	Α .	320
961	AA	AGA	ATG	TAT	AAG	GTG	TAA.	AGA	.CGA	CTC'	TCA	ATT	TTC	AGG	ATC	CAG	TGA	GTG	TAC.	AGAG	1020
321	K	Ξ	С	I	R	С	K	D	D	S	Q	F	S	G ·	S	S	Ξ.	С	T	Ε .	340
1021	CG	CCC	TCC	CTG	TAC	CAC	AAA	AĢA	ETA	TTT	CCA	GAT	CCA	TAC	TCC	ATG	TGA	TGA	AGA	AGGA	1080
341	R	5	₽	C .	T	T	K .	D	Y	F	Q	Ι	Н	T .	Þ	С	D	Ε	E	G .	360
1081	AA	GAC	ACA	GAT	AAT	GTA	CAA	GTC	GAT	AGA	GCC	CAA	AAT	CTG	CCG	GGA	GGA	TCT	CAC	AGAT	1140
361	K	T	Q		M	Y	K	W	I	Ε	₽.	K	I	C .	R	Ξ	D	L	T	D .	380
1141	GC	TAT	TAG	ATT	'GCC	CCC	TTC	TGC	IA.GA	GAA	.GAA	.GGA	TTG	TCC	GCC	TTG	CAA	.CCC	TGG	ATTT	1200
381	A	I	R	L	þ	Đ	S	G	Ξ	K	К	D	С	р	Đ	С	N	Đ	G	ੁ ਦ	400
1201	ŢΆ	TAA	.C.A.A	TGG	ATC	ATC	TTC	TTC	CCA	TCC	CTG	TCC	TCC	TGG	AAC	TTA:	TTC	'AGA	TGG	AACC	1260
401	Y	N	N	G	S	S	S	Ċ	Н	Đ	C	p	Þ	G ·	T	F	S	D	G	T .	420
1261	AA	AGA	ATG	TAG	ACC	'ATC	TCC	AGC	AGG	AAC	GG.A	.GCC	TGC	ACT	TGG	CTT	TGA	ATA	AAT	ATGG	1320
421	K	Ξ	С	R	P	С	?	A		T	E	P	A	L	G	F	٤.	Y	K	₩ .	440
1321	TG	GAA	TGT	'CCT	TCC	TGG	CAA	CAT	GAA	AAC	TTC	CTC	CTT	CAA	TGI	TGO	GAA	TTC	'AAA	GTGC	1380
441	W	N	V	[.	þ	G	N	M	K	Ţ	S	C	F	N	V	G	N	S	K	C .	460
1381	GA	TGC	TAA	'GAA	TGC	TTC	GGA	(GG	rggc	TGC	AGA	TC	ATAI	CCA	AGA(TGC	iGG(TGC	AGG	TTCT	1440
461	D	G	M	N	G	W	Ε	V	. A	G	D	H	I	Q	S	G	A	G	G	S	480



FIG. 4B

1441	GA(CAAC	[GA]	TTA(CTO	TAE	TT	AAA(TTC	CAT	'ATC	CCA	AGG?	ATTI	'AA	ACCI	ACC.	AAC.	ATC:	TATG	1500
481	D	N	D	Ą	Ĺ	Ι	L	M	Ĺ	H	Ι	Đ	G	F	K	Đ	р	T	S	M	500
1501	AC.	TGG	AGC(CAC	GGT	rrc	IGA	ACT!	AGG!	AAG!	ATI	AAC!	ATT!	IGT(TT	TGA(GAC	CCT	CTG	ITCA	1560
501	T	G	A	T	G	S	Ξ	Ľ	G	R	I	T	F	V	F	Ξ	T	Ĺ	C	S	520
1561	GC'	TGA	CTG'	TGT	TTT(JTA	CTT		a BGT(JGA:	[AT]	ľAA'	TAG	AAA	AAG'	TAC.	AAA	TGT	GGT.	AGAA	1620
521	A	D	С	V	L	Y	F	M	V	D	I	N	R	K	S	T	N	Λ	V	Ξ	540
1621	TC	GTG	GGG'	TGG.	AAC(CAA	AGA	i AAA	ACA <i>I</i>	AGC'	ITA(CAC	CCA'	Tato	CAT	CTT	CAA	GAA	TGC	AACT	1680
541	S	W	G	G	T	K	Ε	К	Q	A	Y	T	Н	I	I	F	K	N	A	T	560
1681	TT	TAC	ATT	TAC	ATG	GGC	ATT	CCA	GAG.	AAC'	TAA'	I CA	GGG	TCA	AGA	TAA	TAG	ACG	GTT	CATC	1740
561	F	T	F	Т	W	A	F	Q	·R	T	N	Q	G	Q	D	N	R	R	F	I	580
1741	AA	TGA	CAT	'GGT	'GAA	GAT	TTA	TTC	TAT	CAC	AGC	CAC	TAA	TGC	AGT	TGA	TGC	GGT	'GGC	GTCC	1800
581	N	D	M	V	K	Ι	Y	S	Ι.,	T	A	T	N	A	V	D	G	V	A	S	600
1801	TC	:ATC	icce	FTGC	CTG	TGC	CCT		DTT:	TGA	ACA	GTC	:GGG	XTTC	ATC	GTO	TGT	ICCC	CTC	GCCCT	1860
601	S	С	R	A	С	A	L	G	S	Ε	Q	S	G	S	S	С	V	P	С	Б	620
1861	CC	CAGO	GCC!	\CT!	ACAT	TGA	AGA <i>l</i>	AGP	LAAC	.C.A.ª	LCCA	GTC	3CAA	IGGA	AT(FTC(CACO	CTG!	ACA(CCTAC	1920
621	P	G	H	Ā	I	Ξ	K	Ξ	T	N	Õ	C	K	Ε	C	Đ	P	D	Ţ	Y	640
1921	C	rgt(CCA	TACA	ATCA	\GGT	ICT <i>î</i>	ATG(KA	AAG <i>I</i>	AGGO	TT(GTAT	ETC(CAT	3CG(3GC(CTG(GA(GTAAA	1980
641	Ĺ	S	I	H	Q	V	Y	G	K	Ξ	A	С	I	Þ	С	G	P	G	S	K	660
																					2040
661	N	N	Q	D	Н	S	V	7.	Y	S	0	C	F	ş	Y	H	Ξ	K	- E	N	680
2041	C	AGA'	TTT	TGC.	ACT.	ATG.	ACT'	TT40	GCAA	J.C.C.	· TCA(3CA	GTG'	TGG(GCT	CAT	TAA	TGA	ATG	GCCCC	2100
681	Q	I	L	Н	Y	D	8	3	, N	L	S	S	Λ	G	S	L	M	N	G	Ď	700
																					2160
701	S	F	T	S	K	G	T	K	. Y	F	Н	F	F	N	I	S	L	C	G	Н	720



FIG. 4C

2161	GAG	GGG	GAA	GAA	GAT	GGC'	TCT(TIG.	rac(JAA(JAA'	TAT.	AAC.	AGA(TT'	TAC	AGT.	AAA	AGAZ	AATA	2220
721	3	G	K	K	M	A	L	Ç	T	N	N	I	Ţ	D	F	T	٧	K	Ε	Ι.	740
2221	GT	GGC.	AGG	GTC.	AGA	TGA:	TTA	CAC.	LAA'	rrt(GT.	AGG	GGC.	ATT'	IGT	ATG	CCA	GTC	AAC	TTAA	2280
741	V	A	G	S	D	D	Y	T	N	L	V	G	A	F	V	C	Q	S	T	Ι	760
2281	ΑT	TCC	TTC	TGA	AAG	TAA	GGG'	TTT	CCG2	AGC	AGC	CTT.	ATC.	ATC	ACA	ATC	CAT	CAT'	TCT(GGCA	2340
761	Ι	P	S	E	S	K	G	F	R	A	A	L	S	S	Q	S	I	Ι	L	A	780
2341	GA	TAC	ATT	CAT	AGG	AGT	CAC.	AGT	TGA	AAC	CAC	ATT	GAA	AAA	TAT	TAA	TAT	AAA	AGA	AGAT	2400
781	D	T	F	I	G	V	T	¥	Ξ	T	T	L	K	N	Ι	Ŋ	I	K	Ε	D .	800
2401	AT	GTT	'CCC	AGT	TCC	AAC	AAG	: CCA	AAT.	ACC.	AGA	TGT	'GCA	TTT	CTT	TTA	TAA	GTC	TTC	TACA	2460
801	M	F	P	۷.	P	T	S	Ď	Ι.	p	D	V	Н	F	F	Y	K	S	S	T .	820
2461	GC	'AAC	'AAC	ATC	TTG	TAT	TAA	.TGG	CCG	ATC	AAC	TGC	TGT	'GAA	AAT	'GAG	GTG	TAA	TCC	TACT	2520
821	A	T	T	S	С	Ι	N	G	·R	S	T	A	Λ	K	M	R	С	N	P	T	840
2521	AA	ATO	TGC	AGC	:AGC	AGT	GAT	TTC	AGT	CCC	CAG	CAA	IGTG	:CCC	'AGC	AGC:	TAC	CTG	TGA	TGGG	2580
841	K	S	G	A	G	V	Ι	S	V	Đ	S	K	С	þ	A	G	T	С	D	G	860
2581	TO	TAC	GTT	CTA	TTT	:CCT	GTC	IGGA	.GAG	TGC	TGA	\AGC	TTO	ECCO	TCT	GTO	TAC	:GGA	.GCA	TGAC	2640
861	С	T	F	Y	F	L	W	Ξ	S	A	Ε	A	C	þ	Ŀ	C	T	Ε	Н	D	088
2641	TI	rcc!	ATG <i>i</i>	AGAT	lTG <i>i</i>	\GG(BAGO	CTG	CAA	GAC	JAGO	AT]	TTC!	AGGA	AA(CTI	IGT <i>A</i>	ATGI	GTG	GAAT	2700
881	प्ट	H	2	I	Ξ	G	A	С	Х	R	G	F	Q	8	T	L	Y	V	W	N	900
2701	G!	AAC(TA	TA!	GT(3CA1	AATI	VAGO	: BAAT	TTC	· TT	[GC(TG!	AGA!	\AA!	AGT!	IGG(Jaa(CTC	STGAA	2760
																				E	
2761	A(IGG'.	rtg <i>i</i>	· ACT:	TTT(GC'.	rga <i>i</i>	AGGT	:GGC	:AGC	CCG(GTG	TGG(GAG(TT	TTA(CTG(CCG1	rtt'i	TGCTG	2820
																				ŗ	
2821	G.	TGG(CTC'	IGA	CCT(GCT	ACT'	PCT(KJAI	\AA!	AGA	ATC.	AAA	AAC	ľGG.	AAT.	ACA.	AAT!	ATT(CAAG	2880
941	V	A	- [,	T	C	Y	F	W	К	K	N	Q	K	L	Ξ	Y	K	Y	S	K	960



FIG. 4D

2881	TT	AGT	AAT	GAC	GAC	TAA	CTC.	AAA	ΛGA	GTG	TGA	ACT	CCC	GGC	TGC	AGA	CAG	TTG	TGC'	TATC	2940
961	L	Α.	M	T .	T	N	S	K	E	C	E	L	Þ	A .	A	D	S	С	A	Ι.	980
2941	AT	'GGA	AGG	AGA	AGA	TAA	TGA	AGA	.GGP	AGT	TGT	ATA	TTC	CAA	TAA	ACA	GTC	ACT	ACT.	AGGA	3000
981	М	E	G	E	D	N	Ε.	Ξ	- E	A	۷.	У	S	N	K	Q	S.	L	ŗ	G	1000
3001	AA	ACT	CAA	ATC	TTT	'GGC	AAC	CAA	GGA	AAA	AGA	AGA	.CCA	TTT	TGA	ATC	TGT	TCA	ACT	GAAA	3060
1001	K	L	K	S	L	A	Τ.	K	Ε	K	E .	D	Н	F	Ε	S	۷.	Q	L	Κ.	1020
3061	AC	CTC	AAG	IATC	:CCC	AAA	TAT	'A'TC	AA.	GAGA	CAC	TGC	TGT	'AGC	CTT	'GAC	ACT	TAAT	GAA	CAAA	3120
1021	T	S	R.	S	P	N	I	i.									,			•	1028
3121	GA	AA(CTG	CTC	TAC	TTT	TAC	'AGC	JAC(CATA	ATTI	TAC	GGT	CTC	TC(CTC	ATA(CCTO	FTCA	CATT .	3180
3181	G	FTG?	ATCI	CAC	CAGA	AGGA	.GGC	ic'c!	ATG(CCG(etg <i>i</i>	\AAA	\GG(JAAC	GA(JAT1	[GA]	AACA	TTT	GATT.	3240
3241	G(CT	rat(CAC!	ATG(FTCF	AGT	TAC(ŢŢ	GCC	AAA'	[AA]	AGG?	1 <u>A</u> A(GCA/)TAA	JAT'	TTG(GT(TCAA	3300
3301	C	[GA]	AGA1	rga.i	AGCT	rca <i>i</i>	ACT(IAG(JAA	GAG	ATT'	TAT(TTG!	TAT!	AT#	CAC	ATA	ACT(JAA <i>P</i>	AACCA ·	3360
3361	A	JTT'	TAA	GCC(CAC(CAA	IGC!	ACT(GCT	GAT(GCA'	TGC(CATA	ATAI	ATT.)TAA	GGG'	TAA(CTT	TTATT ·	3420
3421	C'	TTT.	ATG	ATG'	TCT	ACA'	raa(CAA	GTG	TGA	TTT	GGA	AGG	CAC.	ATG	TGA	GCA	TAT ·	GCA:	TTATG	3480
3481	A	TCC	AAT'	TTA:	TGT	TTT	TTC'	rtt	GTT	TAT	ATT	TTG	GGG.	<u> </u>	ATT	AAA	ATT	TTT	TTA	AGGTA	3540
3541	A	AAA	AAA	AAA	AAA	AAA	3	556													

FIG. 4E



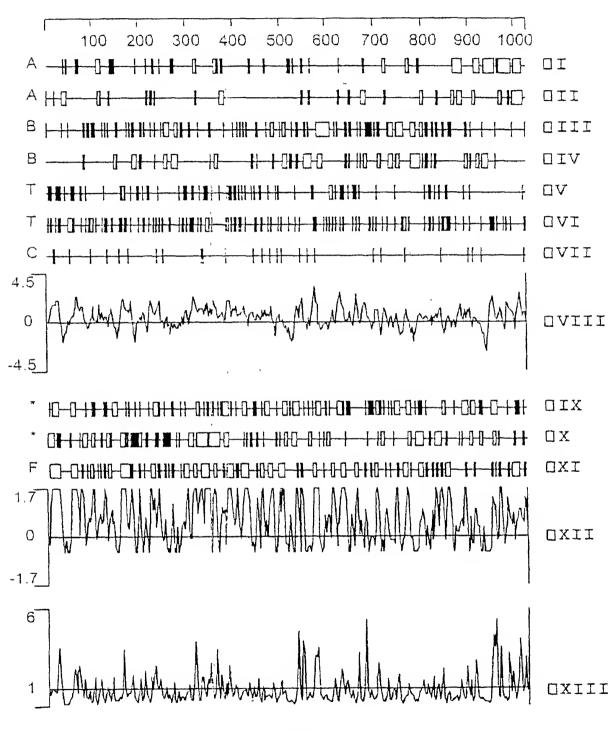
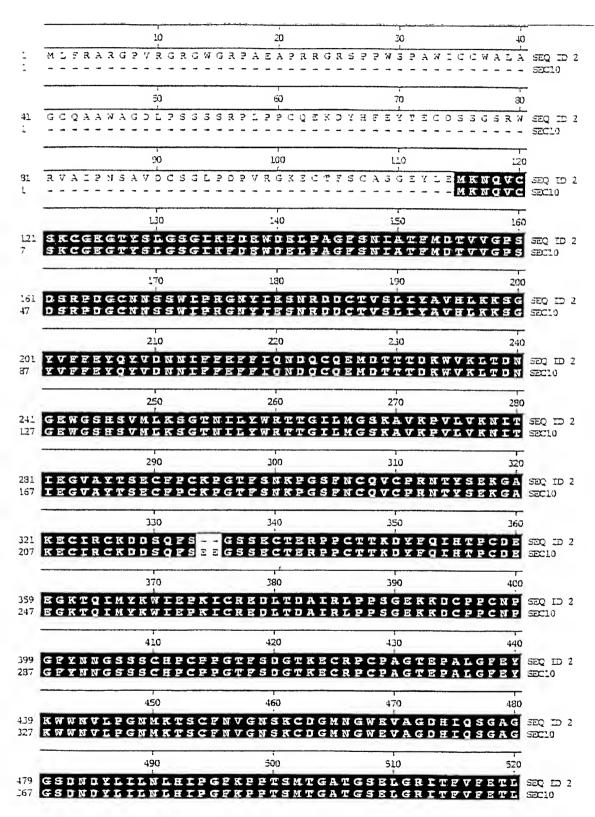


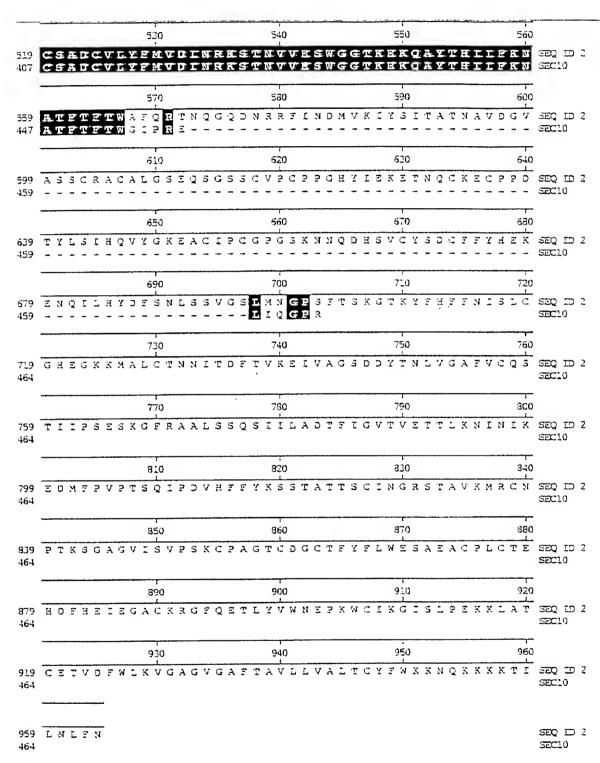
FIG. 5





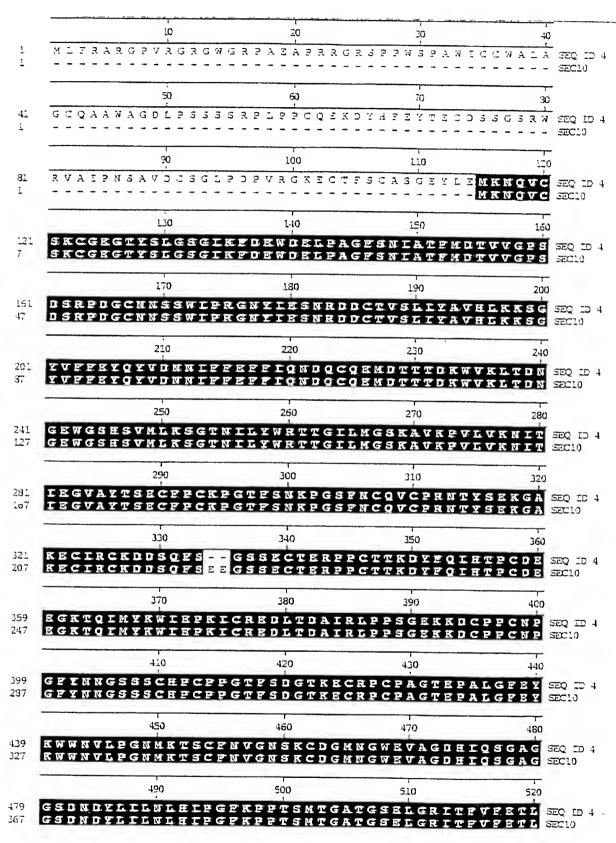
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FIG. 6A

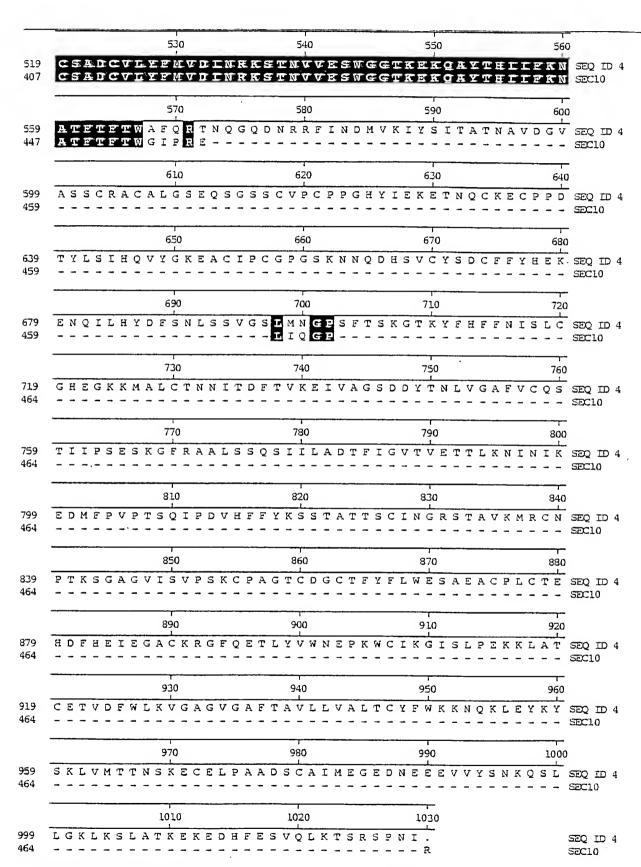


Decoration 'Decoration #1': Shade (with solid black) residues that match the consensus named 'Consensus #1' exactly.









Decoration 'Decoration #1': Shade (with solid black) residues that match the consensus named 'Consensus #1' exactly.

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